T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
— 79856 —			
— 159711 —			
— 239567 —			
— 319423 —			
— 3993 —			
— 55874 —			
— 578729 =			

BR-1718/2013/14

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191562

Serial No. 1st and final Bill

Name of work Imp and Asphalting ~~From~~ to Veerana and To Sadashivappa layout Roads in Ward No. 09

Name of Contractor of nature of Agency KRIDL

Date of commencement of work D.O. Recording : 29/03/2014

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Estimated Cost Rs :		Rs. 30.00 Lakh.				
	DB.No		= 009-14-000049				
	Work order No		= EE/BTP/BBMP/KRIDL/WO/459/2013-14 Dt. 21-02-2014				
	(1) Earthwork excavation by manual means in hard dust, trending on average horizontal throughout 2m and on average lift upto 0.50m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	after breaking slabs etc complete as per specifications.						
				1958			
		Qty wide ~~this~~ MB.P				195793	
		~~Item~~ No. (1) =				696.45 ft³	63181.94
						@ 90.72/-	
(2)	Removing of B.R. slabs, drawing and stacking etc complete as per specifications and directions of Engineer-in-charge of the work.						
		Qty as per Item No. (2) MB 1958					
		P. 195795 Item (2) =				1182.0 @ 50.11/2	59530.68
3)	Refixing the stone slabs of drains and pointing in C.M. 1:3						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	etc complete as per s in charge of the work.
4)	Scraping stone met pic axes along with p ejection of old dam loosening by manual me etc complete as per spe

In-charge of Works.

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
n specifications.			
1958			
~~this~~ MB.p		195793	
~~No~~. ① =		696.45 m³ @ 90.72/m	63181.94
cking etc complete as			
ction. in. charge of			
pn. ~~No~~. ② MB 1958			
=	1188.0	@ 50.11/m²	59530.68
porting in C.91:3			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 191563

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	etc complete as per specifications and directions of Engineer-in-charge of the work.						
	By as per MB No ①					1188.00 @ 70.04/m²	83207.52
	By scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet surface dressing and disposal of old serviceable materials, within a lead of 100 m by manual means including cost of all labour charges etc complete as per specifications and directions of Engineer-in-charge of work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Qty vide Item no. (3) of MB 1958 P.no. 195795			= 3603.75 @ 72.79/-	2223 16.2
5)	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carrying mixed materials by tipper to site laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with hydraulic Roller to achieve the desired density etc complete as per specification and direction of Engineer in-charge of work.						546 34
			Qty vide MB 1958. P. 195797 Item (4)			= 576.564 @ 1121.04/-	

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	6) Cleaning the exist removing of bindi with wire brushes a dry brushes and fro or compressed air i including costly ma Carry the complete as Engineer-in-Charge of

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
Ay wide Item no. ③ of MB 1958				
5795	= 3603.75 @ 72.79/1,		262316.96	
compacting graded stone				
n Specification including				
water at One in mechanical				
rials by tipper to site				
paver in sub-base/base				
ufacture and compacting				
chine to desired density				
ns and directions of Engineer				
			640346.82	

ade MB 1958 · P. 195797
= 576.564 @ 1121.04/1,

M. A. R. 57 (Rule 116)
Measurement Book

No. B 191564

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	6) Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes of small picks, sweeping with brooms or dry brushes and finally dusting with old gunny bags and or compressed air to receive the bituminous treatment. including costing materials, labour, hire of machinery Carry the complete as per specifications and directions of Engineer-in-Charge of work.						
	Qty as per Item no. ⑤						37947.49
	= 3603.75 m² @ 10.53/m²						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7)	Providing and applying primer coat @ 12.2 to 14.0 kg/10 m² for surfaces of high porosity over prepared surface of granular base with surface m.c 70 or any other bitumen mixed with diesel @ 13 kg/10 m² heated 2 hrs to in bitumen boiler filled with spray etc including carriage all materials, labours, tools, machinery complete as per specification and directions.						
		Qty vide item no. (6)				3603.75 m² @ 142.07/-	511985.00
8)	Providing and laying semi dense bituminous concrete						

M. A.
Mea

Serial No. .....
Name of work ..... From
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	25 mm thick with an average output of specified grading, pro 4.5 to 5% of mixed at hi Worksite laying with a hyd screed control to the requir Rolling with smooth wheeled to achieve the desired comp clause no. 500.8 comple in	100-12

ENT BOOK

Dimensions			Contents	Reference to last Measurement
gth	Breadth 5	Depth 6	7	8
at 12.2 to 14.60 by 10/42				
prepared surface of				
70 or any other bitumen				
m2 heated				
spray etc including				
, Hiring of machinery				
nos @ 3603.75 m2				
@ 142.02/m2				511985.00
nce bituminous concrete				

M. A. R. 57 (Rule 116)
Measurement Book

No. B
191565

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 T/hr using crushed aggregate of specified grading, premixed with bituminous binder at 4.5 % by wt. of mixed aggregates, transporting to the hot mix to Worksite laying with hydrostatic paver finisher with sensor control to the required grade level and alignment, Rolling with smooth wheeled Vibratory and tandem Roller to achive the desired compaction as per specification clause no. 500.8 complete in all respects as per specifications						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Dim 60/70 grade bitumen using 40-60 kmp as per Specification and direction of Engineer-in-charge of work.						
	Kramer. layout				Avg		
		1	30.00	$\frac{5.3+5.8}{2}$	0.025 =	4.16	
		1	30.00	$\frac{5.8+6.1}{2}$	0.025 =	4.46	
		1	13.40	$\frac{6.1+6.2}{2}$	0.025 =	2.06	
		1	30.00	$\frac{5.8+5.8}{2}$	0.025 =	4.35	
		1	3.40	$\frac{5.8+5.7}{2}$	0.025 =	0.49	
		1	38.40	$\frac{6.7+5.6}{2}$	0.025 =	5.90	
	Radha shoppe layout	1	30.00	$\frac{5.5+5.1}{2}$	0.025 =	4.16	

RFC

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	N
1	2	

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
using	40 - 60 x mp		as pq	
	Eng. Sch. - 5. chapter of work.			
		Dup		
0.00	5.3+5.8 / 2	0.025 =	4.16	
0.00	5.8+6.1 / 2	0.025 =	4.46	
5.40	6.1+6.2 / 2	0.025 =	2.06	
0.00	5.8+5.8 / 2	0.025 =	4.36	
.40	5.8+5.7 / 2	0.025 =	0.49	
8.40	6.7+5.6 / 2	0.025 =	5.90	
30.00	5.5+5.4 / 2	0.025 =	4.16	

C&Fc

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191566

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8
		1	29.70	5.6+5.2 / 2	0.025 =	4.015	
		1	30.60	4.6+4.0 / 2	0.025 =	3.31	
		1	30.00	4.4+4.1 / 2	0.025 =	3.19	
		1	30.40	4.1+3.6 / 2	0.025 =	2.93	
		1	30.00	3.1+3.0 / 2	0.025 =	2.29	
		1	30.00	3.0+3.6 / 2	0.025 =	2.48	
		1	30.00	4.6+5.0 / 2	0.025 =	3.94	

C&Fc

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	32.80	$\frac{5.9+7.4}{2}$	0.025	= 8.45	
		1	27.50	$\frac{6.4+5.0}{2}$	0.025	= 3.64	
		1	15.00	$\frac{7.25+6.9}{2}$	0.037	= 3.93	
		1	30.00	$\frac{6.95+7.45}{2}$	0.037	= 7.85	
		1	30.00	$\frac{7.45+6.8}{2}$	0.037	= 7.77	
		1	9.10	$\frac{6.55+6.8}{2}$	0.037	= 2.25	
	11th main Road from 9th Cross (N.S.L) layout	1	30.00	$\frac{4.5+4.4}{2}$	0.025	= 3.34	
		1	30.00	$\frac{4.4+4.1}{2}$	0.025	= 3.19	

CBFC

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	CBFC 29/03/23
	9) Road marking with compound with reflec surface - providing and compound 2.5mm thi

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
.80	$\frac{5.9+7.4}{2}$	0.025	= 8.45	
1.50	$\frac{6.4+5.0}{2}$	0.025	= 3.64	
5.00	$\frac{7.25+6.8}{2}$	0.037	= 3.33	
0.00	$\frac{6.95+7.45}{2}$	0.037	= 7.8	
0.00	$\frac{7.45+6.8}{2}$	0.037	= 7.77	
.10	$\frac{6.55+6.8}{2}$	0.037	= 2.25	
0.00	$\frac{4.5+4.4}{2}$	0.025	= 3.34	
0.00	$\frac{4.4+4.1}{2}$	0.025	= 3.19	

C&FC

M. A. R. 57 (Rule 116)
Measurement Book

No. B 191567

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	$\frac{4.1+5.1}{2}$	0.025	= 3.46	
		1	11.00	$\frac{5.1+5.3}{2}$	0.025	= 1.43	
						90.164	
						Ltd to 90.094	89220.72
						₹ 9981.36/-	
	9) Road marking with hot applied thermoplastic compound with reflectorising glass beads on bituminous surface - providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass						

C&FC

29/03/2024

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	beads at 250 gm/ thickness 2.5 mm is Exclusive of surface level, uniform level.						
	Sadashiv. Jpn/ Govt.	2×1	30.00	0.10	-	6.00	
		2×1	29.70	0.10	-	5.94	
		2×1	30.00	0.10	-	6.00	
		2×1	32.80	0.10	-	6.56	
						24.50 sq	
						@471.96/sq	11563.02
10)	Load for Disposal of debris shall be payable at Conveyance rates by mechanical means including loading and unloading charges						

C&R
P 29/3

M. A
Me

Serial No. .....
Name of work ..... Fro
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
11)		
12)	KRIDL - Service charges.	
13)	for third party QC ch	

29/07

As
Vic

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
2.5mm is Exclusive of surface to				
30.00	0.10	-	6.00	
29.70	0.10	-	5.94	C/F
30.00	0.10	-	6.00	
32.80	0.10	-	6.56	
			24.50 m²	11563=02
			₹471.96/m²	
shall be payable at				
cal mark in study				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 191563

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			Chg as per item no. (9)			= 682.524 m³	
						@ ₹72.71/m³	49626.00
11)						Total B	26,24,926.16
12)	KRIDL - Service charges as Applicable @ 11%.						2,88,742.00
13)	for third party QC charges @ 1%.						26,249.00
						Total	29,39,917.16
						Grand	29,13,661=00

29/03

29/3

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
			N ←	
			11 mer NTI	
			135.20m	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

M. A. R. 57 (Rule 116)
Measurement Book

91569

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						IT - 58273 -	
						VAT - 116546 -	
						Sc - 174820	
						Lwc - 29137 -	
						CSF - 29114 -	
						Roy - 115890 -	
						427570 =	
						20/1/16.	

2913661=00
427570=
2486081=00